

OIPE

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/835,976

DATE: 05/08/2001  
 TIME: 15:55:17

Input Set : A:\PT0.txt  
 Output Set: N:\CRF3\05082001\I835976.raw

Does Not Comply  
 Corrected Diskette Needed

*see  
 pg 4-7*

3 <110> APPLICANT: Mount, David B.  
 4 Delpire, Eric  
 5 Gamba, Gerardo  
 6 Alfred L. George, Jr.  
 8 <120> TITLE OF INVENTION: PURIFIED AND ISOLATED POTASSIUM-CHLORIDE COTRANSPORTER NUCLEIC ACIDS

AND

9 POLYPEPTIDES AND  
 10 THERAPEUTIC AND SCREENING METHODS USING SAME  
 12 <130> FILE REFERENCE: Attorney Docket No. 1242-26-2  
 14 <140> CURRENT APPLICATION NUMBER: US/09/835,976  
 15 <141> CURRENT FILING DATE: 2001-04-16  
 17 <160> NUMBER OF SEQ ID NOS: 131  
 19 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

4644 <210> SEQ ID NO: 16  
 4645 <211> LENGTH: 1150  
 4646 <212> TYPE: PRT  
 4647 <213> ORGANISM: Homo sapiens  
 4649 <220> FEATURE:  
 4650 <221> NAME/KEY: misc\_feature  
 4651 <222> LOCATION: (35)  
 4652 <223> OTHER INFORMATION: Xaa=Leu or Ile  
 4654 <220> FEATURE:  
 4655 <221> NAME/KEY: misc\_feature  
 4656 <222> LOCATION: (346)  
 4657 <223> OTHER INFORMATION: Xaa=Leu or Ile  
 4659 <220> FEATURE:  
 4660 <221> NAME/KEY: misc\_feature  
 4661 <222> LOCATION: (789)  
 4662 <223> OTHER INFORMATION: Xaa=Leu or Ile  
 4664 <400> SEQUENCE: 16  
 4665 Met His Pro Pro Glu Thr Thr Thr Lys Met Ala Ser Val Arg Phe Met  
 4666 1 5 10 15  
 4668 Val Thr Pro Thr Lys Ile Asp Asp Ile Pro Gly Leu Ser Asp Thr Ser  
 4669 20 25 30  
 4671 Pro Asp Xaa Ser Ser Arg Ser Ser Ser Arg Val Arg Phe Ser Ser Arg  
 4672 35 40 45  
 4674 Glu Ser Val Pro Glu Thr Ser Arg Ser Glu Pro Met Ser Glu Met Ser  
 4675 50 55 60  
 4677 Gly Ala Thr Thr Ser Leu Ala Thr Val Ala Leu Asp Pro Pro Ser Asp  
 4678 65 70 75 80  
 4680 Arg Thr Ser His Pro Gln Asp Val Ile Glu Asp Leu Ser Gln Asn Ser  
 4681 85 90 95  
 4683 Ile Thr Gly Glu His Ser Gln Leu Leu Asp Asp Gly His Lys Lys Ala  
 4684 100 105 110

*P.4*

## RAW SEQUENCE LISTING

DATE: 05/08/2001

PATENT APPLICATION: US/09/835,976

TIME: 15:55:17

Input Set : A:\PTO.txt

Output Set: N:\CRF3\05082001\I835976.raw

4686 Arg Asn Ala Tyr Leu Asn Asn Ser Asn Tyr Glu Glu Gly Asp Glu Tyr  
 4687 115 120 125  
 4689 Phe Asp Lys Asn Leu Ala Leu Phe Glu Glu Glu Met Asp Thr Arg Pro  
 4690 130 135 140  
 4692 Lys Val Ser Ser Leu Leu Asn Arg Met Ala Asn Tyr Thr Asn Leu Thr  
 4693 145 150 155 160  
 4695 Gln Gly Ala Lys Glu His Glu Glu Ala Glu Asn Ile Thr Glu Gly Lys  
 4696 165 170 175  
 4698 Lys Lys Pro Thr Lys Thr Pro Gln Met Gly Thr Phe Met Gly Val Tyr  
 4699 180 185 190  
 4701 Leu Pro Cys Leu Gln Asn Ile Phe Gly Val Ile Leu Phe Leu Arg Leu  
 4702 195 200 205  
 4704 Thr Trp Val Val Gly Thr Ala Gly Val Leu Gln Ala Phe Ala Ile Val  
 4705 210 215 220  
 4707 Leu Ile Cys Cys Cys Cys Thr Met Leu Thr Ala Ile Ser Met Ser Ala  
 4708 225 230 235 240  
 4710 Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr Phe Met Ile  
 4711 245 250 255  
 4713 Ser Arg Ala Leu Gly Pro Glu Phe Gly Gly Ala Val Gly Leu Cys Phe  
 4714 260 265 270  
 4716 Tyr Leu Gly Thr Thr Phe Ala Ala Met Tyr Ile Leu Gly Ala Ile  
 4717 275 280 285  
 4719 Glu Ile Phe Leu Val Tyr Ile Val Pro Arg Ala Ala Ile Phe His Ser  
 4720 290 295 300  
 4722 Asp Asp Ala Leu Lys Glu Ser Ala Ala Met Leu Asn Asn Met Arg Val  
 4723 305 310 315 320  
 4725 Tyr Gly Thr Ala Phe Leu Val Leu Met Val Leu Val Val Phe Ile Gly  
 4726 325 330 335  
 4728 Val Arg Tyr Val Asn Lys Phe Ala Ser Xaa Phe Leu Ala Cys Val Ile  
 4729 340 345 350  
 4731 Val Ser Ile Leu Ala Ile Tyr Ala Gly Ala Ile Lys Ser Ser Phe Ala  
 4732 355 360 365  
 4734 Pro Pro His Phe Pro Val Cys Met Leu Gly Asn Arg Thr Leu Ser Ser  
 4735 370 375 380  
 4737 Arg His Ile Asp Val Cys Ser Lys Thr Lys Glu Ile Asn Asn Met Thr  
 4738 385 390 395 400  
 4740 Val Pro Ser Lys Leu Trp Gly Phe Phe Cys Asn Ser Ser Gln Phe Phe  
 4741 405 410 415  
 4743 Asn Ala Thr Cys Asp Glu Tyr Phe Val His Asn Asn Val Thr Ser Ile  
 4744 420 425 430  
 4746 Gln Gly Ile Pro Gly Leu Ala Ser Gly Ile Ile Thr Glu Asn Leu Trp  
 4747 435 440 445  
 4749 Ser Asn Tyr Leu Pro Lys Gly Glu Ile Ile Glu Lys Pro Ser Ala Lys  
 4750 450 455 460  
 4752 Ser Ser Asp Val Leu Gly Ser Leu Asn His Glu Tyr Val Leu Val Asp  
 4753 465 470 475 480  
 4755 Ile Thr Thr Ser Phe Thr Leu Leu Val Gly Ile Phe Phe Pro Ser Val  
 4756 485 490 495  
 4758 Thr Gly Ile Met Ala Gly Ser Asn Arg Ser Gly Asp Leu Lys Asp Ala

## RAW SEQUENCE LISTING

DATE: 05/08/2001

PATENT APPLICATION: US/09/835,976

TIME: 15:55:17

Input Set : A:\PTO.txt

Output Set: N:\CRF3\05082001\I835976.raw

```

4759          500          505          510
4761 Gln Lys Ser Ile Pro Ile Gly Thr Ile Leu Ala Ile Leu Thr Thr Ser
4762          515          520          525
4764 Phe Val Tyr Leu Ser Asn Val Val Leu Phe Gly Ala Cys Ile Glu Gly
4765          530          535          540
4767 Val Val Leu Arg Asp Lys Phe Gly Asp Ala Val Lys Gly Asn Leu Val
4768 545          550          555          560
4770 Val Gly Thr Leu Ser Trp Pro Ser Pro Trp Val Ile Val Ile Gly Ser
4771          565          570          575
4773 Phe Phe Ser Thr Cys Gly Ala Gly Leu Gln Ser Leu Thr Gly Ala Pro
4774          580          585          590
4776 Arg Leu Leu Gln Ala Ile Ala Lys Asp Asn Ile Ile Pro Phe Leu Arg
4777          595          600          605
4779 Val Phe Gly His Ser Lys Ala Asn Gly Glu Pro Thr Trp Ala Leu Leu
4780          610          615          620
4782 Leu Thr Ala Ala Ile Ala Glu Leu Gly Ile Leu Ile Ala Ser Leu Asp
4783 625          630          635          640
4785 Leu Val Ala Pro Ile Leu Ser Met Phe Phe Leu Met Cys Tyr Leu Phe
4786          645          650          655
4788 Val Asn Leu Ala Cys Ala Leu Gln Thr Leu Leu Arg Thr Pro Asn Trp
4789          660          665          670
4791 Arg Pro Arg Phe Arg Tyr Tyr His Trp Ala Leu Ser Phe Met Gly Met
4792          675          680          685
4794 Ser Ile Cys Leu Ala Leu Met Phe Ile Ser Ser Trp Tyr Tyr Ala Ile
4795          690          695          700
4797 Val Ala Met Val Ile Ala Gly Met Ile Tyr Lys Tyr Ile Glu Tyr Gln
4798 705          710          715          720
4800 Gly Ala Glu Lys Glu Trp Gly Asp Gly Ile Arg Gly Leu Ser Leu Ser
4801          725          730          735
4803 Ala Ala Arg Phe Ala Leu Leu Arg Leu Glu Glu Gly Pro Pro His Thr
4804          740          745          750
4806 Lys Asn Trp Arg Pro Gln Leu Leu Val Leu Leu Lys Leu Asp Glu Asp
4807          755          760          765
4809 Leu His Val Lys His Pro Arg Leu Leu Thr Phe Ala Ser Gln Leu Lys
4810          770          775          780
W4812 Ala Gly Lys Gly Xaa Thr Ile Val Gly Ser Val Ile Val Gly Asn Phe
4813 785          790          795          800
4815 Leu Glu Asn Tyr Gly Glu Ala Leu Ala Ala Glu Gln Thr Ile Lys His
4816          805          810          815
4818 Leu Met Glu Ala Glu Lys Val Lys Gly Phe Cys Gln Leu Val Val Ala
4819          820          825          830
4821 Ala Lys Leu Arg Glu Gly Ile Ser His Leu Ile Gln Ser Cys Gly Leu
4822          835          840          845
4824 Gly Gly Met Lys His Asn Thr Val Val Met Gly Trp Pro Asn Gly Trp
4825          850          855          860
4827 Arg Gln Ser Glu Asp Ala Arg Ala Trp Lys Thr Phe Ile Gly Thr Val
4828 865          870          875          880
4830 Arg Val Thr Thr Ala Ala His Leu Ala Leu Leu Val Ala Lys Asn Ile
4831          885          890          895

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/835,976

DATE: 05/08/2001  
TIME: 15:55:17

Input Set : A:\PTO.txt

Output Set: N:\CRF3\05082001\I835976.raw

```

4833 Ser Phe Phe Pro Ser Asn Val Glu Gln Phe Ser Glu Gly Asn Ile Asp
4834                      900                      905                      910
4836 Val Trp Trp Ile Val His Asp Gly Gly Met Leu Met Leu Leu Pro Phe
4837                      915                      920                      925
4839 Leu Leu Lys Gln His Lys Val Trp Arg Lys Cys Ser Ile Arg Ile Phe
4840                      930                      935                      940
4842 Thr Val Ala Gln Leu Glu Asp Asn Ser Ile Gln Met Lys Lys Asp Leu
4843 945                      950                      955                      960
4845 Ala Thr Phe Leu Tyr His Leu Arg Ile Glu Ala Glu Val Glu Val Val
4846                      965                      970                      975
4848 Glu Met His Asp Ser Asp Ile Ser Ala Tyr Thr Tyr Glu Arg Thr Leu
4849                      980                      985                      990
4851 Met Met Glu Gln Arg Ser Gln Met Leu Arg His Met Arg Leu Ser Lys
4852                      995                      1000                      1005
4854 Thr Glu Arg Asp Arg Glu Ala Gln Leu Val Lys Asp Arg Asn Ser Met
4855 1010                      1015                      1020
4857 Leu Arg Leu Thr Ser Ile Gly Ser Asp Glu Asp Glu Glu Thr Glu Thr
E--> 4858 025 1025                      1030                      1035                      1040
4860 Tyr Gln Glu Lys Val His Met Thr Trp Thr Lys Asp Lys Tyr Met Ala
4861                      1045                      1050                      1055
4863 Ser Arg Gly Gln Lys Ala Lys Ser Met Glu Gly Phe Gln Asp Leu Leu
4864                      1060                      1065                      1070
4866 Asn Met Arg Pro Asp Gln Ser Asn Val Arg Arg Met His Thr Ala Val
4867                      1075                      1080                      1085
4869 Lys Leu Asn Glu Val Ile Val Asn Lys Ser His Glu Ala Lys Leu Val
4870                      1090                      1095                      1100
4872 Leu Leu Asn Met Pro Gly Pro Pro Arg Asn Pro Glu Gly Asp Glu Asn
E--> 4873 105 1105                      1110                      1115                      1120
4875 Tyr Met Glu Phe Leu Glu Val Leu Thr Glu Gly Leu Glu Arg Val Leu
4876                      1125                      1130                      1135
4878 Leu Val Arg Gly Gly Gly Ser Glu Val Ile Thr Ile Tyr Ser
4879                      1140                      1145                      1150
4882 <210> SEQ ID NO: 17
4883 <211> LENGTH: 712
4884 <212> TYPE: DNA
4885 <213> ORGANISM: Homo sapiens
4887 <400> SEQUENCE: 17
4888 agacaggaat ccggttctgc cctgcatcc tcctctgctt cacccttctg tcagtagtgt 60
E--> 4890 gggttatttt ttctggttat gcatgtgcac ctttcccacc agacccaagt ggattgtcga 120
4892 catcaaaaac accgggtggc ttgcatata cctcccccca gccagacctg tgggggtattc 180
E--> 4894 acctgatacn caacaggtgg ccgggtgtac accttttagc aatctgatcc acgctatagt 240
4896 cgctgataaa aggtttgcct gcacgcactt ggcccaacta gaaccctgg gacactcacc 300
4898 agataaagga cttacctcga caggaaactg ggggctgagg ggaggaggc ttcattctgct 360
4900 gccctgagac catggcactg agccttcagc cccggaccag aggggttagc taggtagctc 420
4902 ttcattctga aggaagaag tcacacaaga ttggcattgt tttgtctttt tgttttttgt 480
4904 ttttttctct cttaaaaaat atattcacct attggtgatg cactttctag gacagtcggc 540
4906 ttgaattctg agtagaagta ttcttagttg gggctttgtg tgtggtgtga atcaagggtta 600
4908 ttgaaatgtg ttatttttca agttatcttt tgtattgcag tcaaaagtag ctacgctaag 660
4910 aggaagattt tgcgaaggtc cccccacttt tttgttctt aaaaagaaca aa 712

```

*When numbering the first amino acid on a line, begin the number directly under the first letter of the amino acid.*

*see item 10 on Error Summary sheet*

## RAW SEQUENCE LISTING

DATE: 05/08/2001

PATENT APPLICATION: US/09/835,976

TIME: 15:55:18

Input Set : A:\PTO.txt

Output Set : N:\CRF3\05082001\I835976.raw

4913 <210> SEQ ID NO: 18  
 4914 <211> LENGTH: 1014  
 4915 <212> TYPE: DNA  
 4916 <213> ORGANISM: mouse  
 4918 <400> SEQUENCE: 18  
 4919 tagccgcccgc ctccagctcc tttgccagga cgagacctct gggaggcagg aatccactct 60  
 4921 gcttcggcat cctctcgtgg ctctcctctt tctccttctt gtagtggtgg ggtattttcc 120  
 4923 cgttatgcat gcgcactctc cccaccagac ccaagtggat tatcgacctc aaaaacatcg 180  
 4925 ggtggctcag cacacacctc ctcccagcca gacctgtggg gtattcacct gatacacaac 240  
 4927 aggtggctgg tgcacacctt tgcgcaatct gatccacgct cttatacgcc tgataagggt 300  
 4929 gggcctgcat gctccgtcct cagctagaac cgtgggacac tcggcagata aaggactaac 360  
 4931 tacctcatcc ggaccctggg ggttagcgag agggaggcgt caccagctgc tgtgagatca 420  
 4933 tggcacggag cccacagccc tggaccaggg gagatagcta ggattctgaa agaaccaagt 480  
 E--> 4935 tatacaggat tagcatcggt ttgttcttat tttgttttct cgaatttat ttttcagtta 540  
 4937 ctggtggggc accttataaa acagctggct tgaattctat acacggattc ttaattgggc 600  
 4939 ctttgggggc tgtaaatcag ggtaattgag ggtttttggt tttttttccc cttotatttt 660  
 4941 tgcaatcaga agtagctagt gtaggaggaa gagtttttgt gagcttttcc ttttttcttt 720  
 4943 gtcaaaaagg aaaggggggg gaaaaatgcat ccaccagaag ccaccaccaa gatgtcctca 780  
 4945 gttcggttca tggtagacac aactaagatt gatgacattc caggtttgtc agacaccagc 840  
 4947 ccggacctca gctctcggtc tagttctcga gtaagattta gctcccgaga aagtgtgcca 900  
 4949 gaaacaagcc gtagtgagcc tatgagcgaa ctgtctgggg ctactacttc tctggcaact 960  
 4951 gttgccctag atccttccag tgaccggact tctaatcccc aggatgttac ggag 1014

item 10

4954 <210> SEQ ID NO: 19  
 4955 <211> LENGTH: 744  
 4956 <212> TYPE: DNA  
 4957 <213> ORGANISM: mouse  
 4959 <400> SEQUENCE: 19

4960 aagtagatgt ttcacctgaa ggaggagaga agcctttcac tgactcttgc aaggttttcc 60  
 4962 catatgcttt gaacttaagc aacaatggaa accgtccttt tgttttctga gttgacatag 120  
 4964 tgccagtctt cattaaagag ggtagtttgt gaaataaagt gttccctgat ctttctcgtg 180  
 4966 tgaagtaaaa ggacagatga tgagtaagggt tgagatgatg gaaccagag aagtggcaat 240  
 4968 aaattaaagg aaacaagtgg gagacacagg gtggacagct cttgatgagc tcacgggctt 300  
 4970 tagctttctg ccgcctggag aaactgcccc gacagttgga gttctacagg ttaataacaa 360  
 4972 taagctgggg tggagtgttt aagcctttta agagaatgat aaacagggcg gaaggcgtgt 420  
 4974 cttcaagcgt cccactccct tggggctatg gtcacgtggg ctacgtactt cccgattccc 480  
 4976 agccactgtc tccctaggct gtgctctgag tgtggaggga gagaggcagg gacgcacggg 540  
 E--> 4978 aaggaaatth aaacgctgaa agcaagggtc tgttgtaag aacaatgccg cacttctactg 600  
 4980 tgaccaaggt agaagaccca gaggaggggg cagctggccc cctctctcct gagcccagct 660  
 4982 cagcagaagt aaaagcccgg attcaggatc cccaagaacc aggtaagtcc tgcgcttgta 720  
 4984 gcgtcggggg acccacagac tagt 744

item 10

5321 <210> SEQ ID NO: 46  
 5322 <211> LENGTH: 315  
 5323 <212> TYPE: DNA  
 5324 <213> ORGANISM: Homo sapiens  
 5326 <400> SEQUENCE: 46

5327 gtgggggcag agaacatgg aggaggagca cacctggggg gttcgtaatg atgaggactg 60  
 5329 cagagactga tgctggcctc cctggcaggc cccacgcatg ggcaccttca tgggcgtgta 120  
 5331 cctgcgtgac ctgcagaaca tctttggcgt catcctcttc ctgcggctca cctgggtggg 180  
 5333 gggcattgca ggcacatgg agtccttctg catggtgttc atctgctgct cctgtgtgag 240

next page

## RAW SEQUENCE LISTING

DATE: 05/08/2001

PATENT APPLICATION: US/09/835,976

TIME: 15:55:18

Input Set : A:\PTO.txt

Output Set: N:\CRF3\05082001\I835976.raw

E--> 5335 tgacaccctt cccctcacca cccctgaca gctggggctt ggcagaggcc tgggggtgg 300  
 5337 gaggtgggag gatgg 315

6892 <210> SEQ ID NO: 113  
 6893 <211> LENGTH: 361  
 6894 <212> TYPE: PRT  
 6895 <213> ORGANISM: Xenopus laevis  
 6897 <400> SEQUENCE: 113

P.7 (next page)

6898 Arg His Glu Gly Thr Val Leu Leu Gly Asp Tyr Leu Asp Ser His Ala  
 6899 1 5 10 15  
 6901 Glu Ser Gln Ala Ala Glu Gln Ala Leu Lys His Leu Met Glu Gln Glu  
 6902 20 25 30  
 6904 Lys Val Lys Gly Phe Cys Gln Val Val Val Ala Gln Lys Leu Lys Glu  
 6905 35 40 45  
 6907 Gly Leu Ser His Leu Ile Gln Ser Cys Gly Leu Gly Gly Met Arg His  
 6908 50 55 60  
 6910 Asn Thr Val Ile Met Ser Trp Pro Ser Ser Trp Arg Gln Ser Asp Asp  
 6911 65 70 75 80  
 6913 Ser Arg Ala Trp Lys Ser Phe Ile Thr Thr Ile Arg Val Thr Thr Ala  
 6914 85 90 95  
 6916 Ala Arg Gln Ala Leu Leu Val Ala Lys Asn Val Ser Phe Phe Pro Gly  
 6917 100 105 110  
 6919 Ser Arg Glu Thr Leu Ala Glu Gly His Ile Asp Val Trp Trp Ile Val  
 6920 115 120 125  
 6922 His Asp Gly Gly Met Leu Met Leu Leu Pro Phe Leu Leu Lys Gln His  
 6923 130 135 140  
 6925 Lys Val Trp Arg Lys Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met  
 6926 145 150 155 160  
 6928 Glu Asp Asn Ser Ile Gln Met Lys Lys Asp Leu Ala Thr Phe Leu Tyr  
 6929 165 170 175  
 6931 His Leu Arg Ile Ala Ala Asp Val Glu Val Val Glu Met His Asp Ser  
 6932 180 185 190  
 6934 Asp Ile Ser Ala Tyr Thr Tyr Glu Arg Thr Leu Met Met Glu Gln Arg  
 6935 195 200 205  
 6937 Ser Gln Met Leu Arg Gln Met Arg Leu Ser Lys Thr Asp Arg Glu Arg  
 6938 210 215 220  
 6940 Glu Ala Gln Leu Val Lys Asp Arg Asn Ser Ile Leu Arg Leu Thr Ser  
 6941 225 230 235 240  
 6943 Val Gly Ser Asp Asp Asp Glu Asp Thr Glu Ala Ala Pro Glu Arg Val  
 6944 245 250 255  
 6946 His Met Thr Trp Thr Arg Asp Lys His His Ala Val Arg Val Ala Gln  
 6947 260 265 270  
 6949 Ser Lys Pro Met Pro Ser Cys Gln Asp Leu Leu Asn Ile Arg Pro Asp  
 6950 275 280 285  
 6952 Gln Ser Asn Val Arg Arg Met His Thr Ala Val Lys Leu Asn Glu Val  
 6953 290 295 300  
 6955 Ile Val Asn Lys Ser His Asp Ala Lys Leu Val Leu Leu Asn Met Pro  
 6956 305 310 315 320  
 6958 Gly Pro Pro Arg Asn Pro Gln Gly Asp Glu Asn Tyr Met Glu Phe Leu  
 6959 325 330 335

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/835,976

DATE: 05/08/2001  
TIME: 15:55:18

Input Set : A:\PTO.txt  
Output Set: N:\CRF3\05082001\I835976.raw

E--> 6961 Glu Val Leu Thr Glu Gly Leu Glu Arg Val Leu Val Val Arg Gly Gly  
6962 340 345 350  
6964 Gly Thr Glu Val Ile Thr Ile Tyr Ser  
E--> 6965 355 360

(x) delete

FYI

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/835,976

DATE: 05/08/2001  
TIME: 15:55:19

Input Set : A:\PTO.txt  
Output Set: N:\CRF3\05082001\I835976.raw

L:14 M:270 C: Current Application Number differs, Replaced Application Number  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:1062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:1239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:1630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:1729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:1819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:2063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:2510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:2511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:2630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:2631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:2738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:2739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:2895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:2982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:3063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:3143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:3144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:3203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:3204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11



## VERIFICATION SUMMARY

DATE: 05/08/2001

PATENT APPLICATION: US/09/835,976

TIME: 15:55:19

Input Set : A:\PTO.txt

Output Set: N:\CRF3\05082001\I835976.raw

L:3343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:3344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:3524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:3569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:4858 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16  
M:332 Repeated in SeqNo=16  
L:4890 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17  
M:340 Repeated in SeqNo=17  
L:4935 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18  
L:4978 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:19  
L:5335 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:46  
L:6680 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:111  
L:6808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:112  
L:6961 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
L:6961 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1  
L:6965 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:113  
L:6965 M:252 E: No. of Seq. differs, <211>LENGTH:Input:361 Found:362 SEQ:113  
L:7159 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:131